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United States
Department of
Agriculture

Forest Service

Forest
Products
Laboratory

Madison, Wis.

In Cooperation with the
University of Wisconsin

List of Publications

Relating to Furniture Manufacturers and Woodworkers

Consult with the Librarian

This list includes publications that present the results of research by the Forest Products Laboratory in this particular field of wood products research.

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Title	Author	Publication and date
<u>Physical and Mechanical Properties</u>		
Structure of wood.	: Forest Products Laboratory	: USDA For. Serv. Res. Note FPL-04. Rev. 1980.
Roofing nail performance in structural flakeboards.	: Schaffer, E. L., : Wilkinson, T. L., : & Heebink, B. G.	: Wood and Fiber : 12(3):196-210. 1980.

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<u>Physical and Mechanical Properties--con.</u>		
Structural sandwich performance after 31 years of service.	: Palms, J., & : Sherwood, G. E.	: USDA For. Serv. Res. Pap. : FPL 342. 1979.
Utilization of red oak press-lam as upholstered furniture frame stock.	: : Eckelman, C. A., : Hoover, W. L., : Jokerst, R. W., & : Youngquist, J. A.	: : For. Prod. J. : 29(6):30-40. 1979. : :
Press-lam: New technology.	: Youngquist, J. A., : Gromala, D. S., : Jokerst, R. W., & : Tschernitz, J. L.	: American Wood Preservers : Institute. Concepts, : p. 27-28. May-June 1979. :
How to buy construction lumber.	: Oviatt, A. E.	: Univ. of Wis.-Ext. Publ. : A3035. 1979. Contact : Univ. of Wis.-Ext., Agric. : Bull. Bldg., 1535 : Observatory Dr., Madison, : Wis. 53706
Structural flakeboard--What is it? What can it do?	: McNatt, J. D.	: So. Lbrmn. Dec. 15, 1977.
Mechanical properties of 23 species of eastern hardwoods.	: Bendtsen, B. A., & : Ethington, R. L.	: USDA For. Serv. Res. Note : FPL-0230. 1975.
Physical characteristics of seasoning discolorations in sugar maple sapwood.	: McMillen, J. M.	: USDA For. Serv. Res. Pap. : FPL 248. 1975.
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Structure of wood.	: Forest Products	: USDA Agric. Handb. No. 72.
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	:	: Material. Ch. 2. 1974.
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Basic properties of three	: Lewis, W. C., &	: USDA For. Serv. Res. Pap.
medium-density hardboards.	: Superfesky, M. J.	: FPL 238. 1974.
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Properties of particle-	: McNatt, J. D.	: USDA For. Serv. Res. Pap.
boards at various humidity	:	: FPL 225. 1974.
conditions.	:	:
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Properties of structural	: Lehmann, W. F.	: For. Prod. J. 24(1):19-26.
particleboards.	:	: Jan. 1974.
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Wood Handbook: Wood as an	: Forest Products	: USDA Agric. Handb. No. 72.
Engineering Material.	: Laboratory	: 432 p. Rev. 1974.
	:	: Because of the cost of this
	:	: handb., free copies cannot
	:	: be distributed. It is
	:	: available for \$10.00 from
	:	: the Superintendent of Doc.,
	:	: GPO, Washington, D.C. 20402.
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Basic engineering proper-	: McNatt, J. D.	: USDA For. Serv. Res. Pap.
ties of particleboard.	:	: FPL 206. 1973.
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Properties of imported	: Kukuchka, B. F.	: USDA For. Serv. Res. Pap.
tropical woods. (Kiln	:	: FPL 125. 1970.
schedules included.)	:	:
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Natural decay resistance	: Clark, J. W.	: USDA For. Serv. Res. Pap.
of fifteen exotic woods	:	: FPL 103. 1969.
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Comparative decay resis-	: Forest Products	: USDA For. Serv. Res. Note
tance of heartwood of	: Laboratory	: FPL-0153. 1967.
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Standard terms for	: Forest Products	: USDA For. Serv. Res. Note
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Machining and related characteristics of United States hardwoods. : Davis, E. M. : USDA Tech. Bull. No. 1267. : 1962. :

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Adhesives in building construction--past, present, and future. : River, B. H., & Gillespie, R. H. : Today's Problems--Tomorrow's Opportunities, The Adhesive and Sealant Council, p. 31-42. 1980. :

Adhesives in building construction. : Gillespie, R. H., Countryman, D., & Blomquist, R. F. : USDA Agric. Handb. No. 516. : 1978. Available from the Superintendent of Doc., GPO, Washington, D.C. : 20402. :

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Mastic construction adhesives in fire exposure. : River, B. H. : USDA For. Serv. Res. Pap. : FPL 198. 1973. :

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Drying and conditioning glued joints. : Forest Products Laboratory : USDA For. Serv. Res. Note : FPL-0190. 1968. : (Supersedes Rep. 475.)

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Ammoniacal copper borate:	Johnson, B. R., &	For. Prod. J. 29(2):33-35
A new treatment for wood	Gutzmer, D.	1978.
preservation.		
Save wood--end-treat stored	DeGroot, R. C., &	For. Prod. Lab. R&A
maple and birch logs.	Eslyn, W. E.	Unnumbered Rep. 1978.
Protecting millwork with	Feist, W. C., &	For. Prod. J.
water repellants.	Mraz, E. A.	28(5):31-35. 1978.
Selection, production,	Gjovik, L. R., &	USDA For. Serv. Gen.
procurement and use of	Baechler, R. H.	Tech. Rep. FPL-15.
preservative-treated wood,		1977.
supplementing federal		
specification TT-W-571.		
Degradation of wood by	Baker, A. J.	USDA For. Serv. Res. Pap.
products of metal corrosion.		FPL 229. 1974.

Drying and Seasoning

High temperature drying of	Boone, R. S., &	USDA For. Serv. Res. Pap.
7/4 yellow-poplar flitches	Maeglin, R. R.	FPL 365. 1980.
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Time, costs, and energy	Simpson, W., &	For. Prod. J.
consumption for drying red	Tschernitz, J. L.	30(1):23-28. 1980.
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thickness and thickness		
variation.		
List of publications on	Forest Products	FPL 80-028. 1980.
drying of wood. Revised	Laboratory	
in 1980.		

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<u>Drying and Seasoning--con.</u>		
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Separates from Dry Kiln		188. Rev. 1980. Avail-
Operator's Manual:		able from the Superintendent
<u>Chapter</u>		of Doc., GPO, Washington,
Introduction		D.C. 20402.
1. Properties of wood		
related to drying.		
2. Kiln types and features.		Single copies of the indi-
3. Auxiliary kiln equip-		vidual chapters are avail-
ment.		able free of charge from the
4. Inspection and mainte-		Forest Products Laboratory.
nance of dry kilns		
and equipment.		
5. Stacking lumber and		
other items for kiln-		
drying.		
6. Kiln samples.		
7. Loading the dry kiln.		
8. Kiln schedules and		
drying time.		
9. Drying defects.		
10. Operating a dry kiln.		
11. Storage of wood.		
High-temperature drying of	Boone, R. S.	Proc. of Symp. on High-
hardwoods: A progress		Temperature Drying of Hard-
report on current research		woods, March 22, 1979,
at FPL.		New Albany, Ind., p. 25-40.
Performance of wood in a	Sherwood, G. E., &	USDA For. Serv. Res. Note
do-it-yourself solar	Gatz, W. A.	FPL-0240. 1979.
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Handling, drying, and	Bois, P. J.	FPU Tech. Rep. No. 8.
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<u>Drying and Seasoning--con.</u>		
Constructing and operating a small solar-heated lumber dryer.	Bois, P. J.	FPU Tech. Rep. No. 7. 1977.
A checklist for drying small amounts of lumber.	Bois, P. J., & Wengert, E. M.	FPU Tech. Rep. No. 6. 1977.
Maintaining moisture content conditions during lumber storage.	Bois, P. M.	FPU Tech. Rep. No. 3. 1976.
Kiln schedules for foreign woods.	McMillen, J. M., & Bois, P. J.	FPU Tech. Rep. No. 2. 1976.
Electric moisture meters for wood.	James, W. L.	USDA For. Serv. Gen. Tech. Rep. FPL-6. 1975.
Control of moisture and dimensional changes.	Forest Products Laboratory	USDA Agric. Handb. No. 72. Wood as an Engineering Material. Ch. 14. 1974.
Moisture content of wood in use.	Forest Products Laboratory	USDA For. Serv. Res. Note FPL-0226. 1973. (Super-sedes Rep. 1655.)
PEG of the woodworker's heart.	Leslie, Harry C.	Man/Society/Technology 33(1): 13-16. Sept.-Oct. 1973.
How PEG helps the hobbyist who works with wood.	Mitchell, H. L.	Miscellaneous Unnumbered Publ. 1972. Available from the Superintendent of Doc., GPO, Washington, D.C. 20402
Methods of controlling humidity in woodworking plants.	Forest Products Laboratory	USDA For. Serv. Res. Note FPL-0218. 1972.
Air drying of lumber: A guide to industry practices.	Rietz, R. C., & Page, H.	USDA Agric. Handb. No. 402. 110 p. 1971.
Buckle in veneer.	Lutz, J. F.	USDA For. Serv. Res. Note FPL-0207. 1970.

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Performance of mildewcides in a semitransparent stain wood finish.	: Feist, W. C., & Mraz, E. A.	: For. Prod. J. 30(5):43-46. 1980.
Durability of exterior natural wood finishes in the Pacific Northwest.	: Feist, W. C., & Mraz, E. A.	: USDA For. Serv. Res. Pap. FPL 366. 1980.
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Wood finishing: Water repellents and water-repellent preservatives.	: Feist, W. C., & Mraz, E. A.	: USDA For. Serv. Res. Note FPL-0124. Rev. 1978.
Protecting wooden structures.	: Feist, W. C.	: Chemtech, p. 160-162. 1978.
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Improving paint performance on southern pine by relief of machining stresses and chromic acid treatment.	Black, J. M., & Mraz, E. A.	USDA For. Serv. Res. Pap. FPL 271. 1976.
Natural exterior finishes for wood in the Pacific Northwest.	Grantham, J. B., Heebink, T. B., Black, John M., & Mraz, E. A.	For. Prod. J. 26(8):21-27. 1975.
Forest Products Laboratory natural finish.	Forest Products Laboratory	USDA For. Serv. Res. Note FPL-046. 1975. (Supersedes Rep. 2096.)
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Inorganic surface treatments for weather-resistant natural finishes.	Black, J. M., & Mraz, E. A.	USDA For. Serv. Res. Pap. FPL 232. 1974.

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Weathering characteristics of house paints by water-soluble extractives in western redcedar and redwood.	Geimer, R. L.	USDA For. Serv. Res. Note FPL-0132. 1972.
<u>Sawing</u>		
Application of ultrasonics in the wood industry.	McDonald, K. A.	Ultrasonics Int. Conf. Proc. Kongress Zentrum Stefaniensaal. Graz, Austria. 1979.
A new look at aspen studs.	Maeglin, R.	The Timber Producer 11:36. 1979.
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A cash flow computer program to analyze investment opportunities in wood products manufacturing.	: Harpole, G. B.	: USDA For. Serv. Res. Pap. FPL 305. 1978.
Wood usage trends in the furniture and fixtures industry.	: Spelter, H., : Stone, R. N., & : McKeever, D. B.	: USDA For. Serv. Res. Note FPL-0239. 1978.
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Locating lumber defects by ultrasonics.	: McDonald, K. A., : Cox, R. G., & : Bulgrin, E. H.	: USDA For. Serv. Res. Pap. FPL 120. 1969.

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<u>General</u>		
Structural composite panels: Market outlook for the 1980's.	: Dickerhoof, E., Marcin, T. C., & Carll, C. G.	: Plywood and Panel 20(11):21-22, 1980.
Production and marketing feasibility of parallel-laminated veneer products.	: Youngquist, J. A., & Bryant, B. S.	: For. Prod. J. 29(8):45-48. 1979.
Forest products research in the Forest Service.	: Youngs, R. L.	: For. Prod. J. 29(10):56-60. 1979.
Hardboard and insulation board plants in the United States--capacity, production, and raw material requirements 1955-1978.	: McKeever, D. B.	: USDA For. Serv. Res. Bull. FPL-7. 1979.
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Economic models for structural flakeboard production.	: Harpole, G. B.	: For. Prod. J. 29(12):26-28. 1979.
Economic feasibility of red oak press-lam for upholstered furniture framestock.	: Hoover, W. L., Eckelman, C. A., & Jokerst, R. W., & Youngquist, J. A.	: For. Prod. J. 29(11):21-25. 1979.

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Wood utilization priorities as set by energy and materials shortages.	Saeman, J. F., & Youngs, R. L.	Proc. of the Soc. of Am. Foresters Natl. Conv. 1978.
Wood usage trends in the furniture and fixtures industry.	Spelter, H., Stone, R. N., & McKeever, D. B.	USDA For. Serv. Res. Note FPL-0239. 1978.
The small woodland owner.	Stone, R. N.	Rep. of Small Woodland Owners Conf., July 20-21 1978, St. Paul, Minn., p. 16-18.
Wood in the energy crisis.	Zerbe, J. I.	Forest Farmer (6):13-15. 1977.
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Forest residues--the timely bonanza.	Wahlgren, H. E.	Tappi 57(10):65-67. Oct. 1974.
Particleboard.	Forest Products Laboratory	USDA For. Serv. Res. Note FPL-072. Rev. 1974.

AMERICAN WOODS Series: Common and scientific, distribution and growth, production, products, properties, uses, and references for species and species groups follows:

Alder, red	Cottonwood	Pine
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Baldcypress	Elm	lodgepole
Balsam poplar	Fir noble	ponderosa
Basswood	Fir white	red
Beech, American	Hackberry	southern
Birch	Hemlock	sugar
Black cherry	eastern	western white
Buckeye	western	Redwood
Butternut	Hickory	Spruce, Sitka
Cedar	Holly, American	Spruce, Englemann
Alaska	Locust, black	Sycamore, American
Atlantic white	Magnolia	Sweetgum
eastern red	Maple, sugar	Typelo
incense	Oaks, eastern	Walnut, Black
northern white	Osage-orange	Western larch
Port-Orford-	Pecan	Willow, black
western	Persimmon	Yellow-poplar
Chestnut		